IN THE CLAIMS:

Please cancel claim 2 without prejudice, and amend claims 1, and 3 23 as follows:

1. (currently amended) A surface acoustic wave filter on the basis of interdigital single-phase unidirectional transducers (SPUDT-type), in connection with which two of such transducers ~~(2, 3)~~ are arranged on a piezoelectrical substrate with distributed acoustic reflection, such transducers being composed of groups of fingers ~~(23 to 25, 33 to 35)~~ and collector electrodes, ~~characterized by the combination of the following features~~ wherein:

(a) The ~~totality of the fingers (231 to 233, 331 to 333)~~ electrodes of each transducer ~~(2, 3) forms~~ form a structure tapering in the direction of the fingers; and

(b) ~~The widths and the positions of the fingers are selected in such a manner that the waves reflected on the fingers (231 to 233, 331 to 333) together with the waves regenerated by the corresponding source and load resistance (0, 0) result in a lengthening of the pulse response of the filter that reduces its form factor~~

~~and/or bandwidth~~ The structure is tapered in the direction of the fingers so that not only the width of equivalent fingers and gaps, but also the intermediate space between the two transducers only vary by one and the same factor along two parallel straight lines, wherein said lines of all fingers of both transducers intersect one another in such a manner that in each transducer, the spacings of the center lines of equivalent fingers are the same in all groups of fingers.

2. (cancelled)

3. (currently amended) The surface acoustic wave filter according to claim 2, ~~characterized in that in the structure tapering in the direction of the fingers,~~ wherein the structure is tapered in the direction of the fingers by reducing the width of the fingers ~~(231 to 233; 331 to 333)~~ and of the gaps located between said fingers ~~is reduced~~ in a step-like manner.

4. (currently amended) The surface acoustic wave filter according to claim 3, ~~characterized in that~~ wherein all equivalent corner points ~~(208, 209)~~ of ~~one and the same~~ a single

finger edge are disposed on a curve, ~~whereby the~~ and wherein straight-lined extensions ~~(26; 36)~~ intersect of all of said curves of the two transformers ~~(2; 3)~~ and intersect each other beyond the corresponding finger area ~~in one and the~~ at a single point.

5. (currently amended) The surface acoustic wave filter according to claim 4, ~~characterized in that~~ wherein each finger stage contains a rectangular finger section with vertical or parallel limitations in relation to the direction of spreading ~~in each case~~, ~~whereby~~ and wherein the two limitations extending parallel with the direction of spreading of all finger sections of the same stage ~~in each case~~ form a straight line of limitation, so that the finger areas disposed ~~in each case~~ between said two straight lines of limitation represent filter channels ~~(201, 203, 205, 207)~~ separated from each other by intermediate areas (202; ~~204; 206)~~.

6. (currently amended) The surface acoustic wave filter according to claim 5, ~~characterize in that~~ further comprising additional collector electrodes ~~are arranged~~ disposed in the intermediate areas ~~(202; 204; 206)~~ ~~in such a manner~~ so that in case such additional collector electrodes belong to different

transducers ~~(2,3)~~, no electrical connection exists between each two of said additional collector electrodes, whereby each additional collector electrode is electrically connected to a collector electrode ~~(21, 22, 31, 32)~~ and the fingers are connected to the additional collector electrodes ~~in such a manner~~ so that they have the same electrical potential as if the additional collector electrodes did not exist.

7. (currently amended) The surface acoustic wave filter according to claim 5, ~~characterized in that in the intermediate areas (202, 204, 206)~~, wherein ~~the~~ electrical connection is made between equivalent finger sections of neighboring filter channels in said intermediate areas ~~(201, 203, 205, 207)~~.

8. (currently amended) The surface acoustic wave filter according to claim 4, ~~characterized in that all~~ wherein said curves are straight lines ~~(210, 310)~~ and their extensions ~~(26, 36)~~ beyond the corresponding finger area of both transducers are ~~the apparent continuation~~ continuations of said straight lines.

9. (currently amended) The surface acoustic wave filter according to claim 1, ~~characterized in that~~ wherein the straight-lined extensions ~~(26, 36)~~ of the curves beyond the corresponding

finger area have the direction of the tangent of the corresponding curve at the borderline of the corresponding finger area.

10. (currently amended) The surface acoustic wave filter according to claim 1, ~~characterized in that~~ wherein each finger group ~~(23 to 25; 33 to 35)~~ of both transducers ~~(2; 3)~~ contains two fingers.

11. (currently amended) The surface acoustic wave filter according to claim 1, ~~characterized in that~~ wherein each finger group ~~(23 to 25; 33 to 35)~~ of both transducers ~~(2; 3)~~ contains three fingers.

12. (currently amended) The surface acoustic wave filter according to claim 11, ~~characterized in that~~ wherein three fingers ~~(232; 233; and 332; 333, respectively)~~ of each one finger group ~~(23 to 25; 33 to 35, respectively)~~ form a pair of fingers, whereby the fingers of a pair of fingers are equally wide and are connected to different collector electrodes ~~(21; 22; and 31; 32, respectively)~~, and are arranged in relation to one another in such a manner that the pair of fingers is without reflection overall and the third finger ~~(231 and 331, respectively)~~ is in each case a reflector finger.

13. (currently amended) The surface acoustic wave filter according to claim 12, ~~characterized in that~~ wherein each finger group ~~(23 to 25, 33 to 35)~~ is a DART-cell.

14. (currently amended) The surface acoustic wave filter according to claim 12, ~~characterized in that~~ wherein each finger group ~~(23 to 25, 33 to 35)~~ is an EWC-cell.

15. (currently amended) The surface acoustic wave filter according to claim 12, ~~characterize in that~~ wherein the source intensity of the amplitude excitation is associated with each finger group ~~(23 to 25, 33 to 35)~~ by means of a source intensity function.

16. (currently amended) The surface acoustic wave filter according to claim 12, ~~characterized in that~~ further comprising a reflection factor ~~is~~ associated with each finger group ~~(23 to 25, 33 to 35)~~ by means of a reflection function.

17. (currently amended) The surface acoustic wave filter according to claim 16, ~~characterized in that~~ wherein the reflection factor in at least one finger group ~~(23 to 25, 33 to 35)~~ has the opposite sign versus the other groups of fingers, such opposite sign being realized in that the spacing of the

reflector finger ~~(231, 331)~~ of said finger group from the other groups of fingers amounts to $n\lambda/2 + \lambda/4$, whereby λ is the wavelength associated with the mean frequency along a straight line intersecting all fingers in such a manner that in each transducer ~~(2, 3)~~, all finger groups ~~(23 to 25, 33 to 35)~~ along said line are equally wide, and that "n" is an integer.

18. (currently amended) The surface acoustic wave filter according to claim 15 or 16, ~~characterized in that~~ **wherein** the source intensity function and the reflection function are determined by means of an optimization method.

19. (currently amended) The surface acoustic wave filter according to claim 15, ~~characterized in that~~ **wherein** at least some of the finger groups ~~(23 to 25, 33 to 35)~~, the latter being designated as structured finger groups, are subdivided in at least one transducer parallel with the collector electrodes in a number of sub-transducers which are electrically connected in series.

20. (currently amended) The surface acoustic wave filter according to claim 19, ~~characterized in that~~ **wherein** all sub-transducers of one and the same structured finger group have the same aperture.

21. (currently amended) The acoustic wave filter according to claim 19, ~~characterized in that~~ wherein the number of sub-transducers in at least one structured finger group is different from the number of sub-transducers in the other structured finger groups.

22. (currently amended) The surface acoustic weave filter according to claim 12, ~~characterized in that~~ wherein the widths of the fingers ~~(232, 233)~~ belonging to a pair of fingers in at least one finger group ~~(23 to 25; 33 to 35)~~ are different from the widths in the other groups of fingers in at least one transducer ~~(2; 3)~~.

23. (currently amended) The surface acoustic wave filter according to claim 12, ~~characterized in that~~ wherein the width of the reflector finger ~~(231; 331)~~ in at least one finger group ~~(23 to 25; 33 to 35)~~ in at least one transducer ~~(2; 3)~~ is different from the one in the other finger groups.